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(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/VKR/W.No.01/2019-20

Date: 23.08.2019

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Vinayaka K.R,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to CC road and drain Kogilu main road to Anjaneya temple road in Kempegowda in Ward No.01, BBMP, Bangalore.
SAMPLE ID	:	Cement (Chettinad OPC 53 Grade)
DATE OF MANUFACTURE	:	July - 2019
DATE OF TESTING	:	21.08.2019 to 23.08.2019
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	425 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CQCE/BBMP/VKR/W.No.01/2019-20

Date : 23.08.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. Vinayaka K.R,** Contractor, Bangalore.
Name of Work : Improvements to CC road and drain Kogilu main road to Anjaneya temple road in Kempegowda in Ward No.01, BBMP, Bangalore.
Date of Testing : 23.08.2019
Material : Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	58	5.80	5.80	94.2	90-100
2.36	155	15.50	21.30	78.7	75-100
1.18	164	16.40	37.70	62.3	55-90
600 Micron	235	23.50	61.20	38.8	35-59
300 Micron	155	15.50	76.70	23.3	8-30
150 Micron	165	16.50	93.20	6.8	0-10

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Job No.: CQCE/BBMP/VKR/W.No.01/2019-20 Date : 23.08.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. Vinayaka K.R,** Contractor, Bangalore.
Name of Work : Improvements to CC road and drain Kogilu main road to Anjaneya temple road in Kempegowda in Ward No.01, BBMP, Bangalore.
Date of Testing : 23.08.2019
Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	212	1.41	1.41	98.59	95-100
20	5236	34.91	36.32	63.68	30-70
10	5214	34.76	71.08	28.92	10-35
4.75	3754	25.03	96.11	3.89	0-5

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Job No.: CQCE/BBMP/VKR/W.No.01/2019-20 02.10.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Vinayaka K.R,** Contractor, Bangalore.

Name of the work : Improvements to CC road and drain Kogilu main road to Anjaneya temple road in Kempegowda in Ward No.01, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.09.2019	02.10.2019	8.265	508.3	22.59
2	25.09.2019	02.10.2019	8.274	521.6	23.18
3	25.09.2019	02.10.2019	8.295	532.6	23.67

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Job No.: CQCE/BBMP/VKR/W.No.01/2019-20 23.10.2019

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Name of the work : Improvements to CC road and drain Kogilu main road to Anjaneya temple road in Kempegowda in Ward No.01, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.09.2019	23.10.2019	8.312	708.5	31.49
2	25.09.2019	23.10.2019	8.326	723.5	32.16
3	25.09.2019	23.10.2019	8.333	736.4	32.73

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.09.2019	02.10.2019	8.265	507.3	22.55
2	25.09.2019	02.10.2019	8.274	516.9	22.97
3	25.09.2019	02.10.2019	8.269	528.5	23.49

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.09.2019	23.10.2019	8.312	735.9	32.71
2	25.09.2019	23.10.2019	8.325	721.6	32.07
3	25.09.2019	23.10.2019	8.341	716.9	31.86

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.09.2019	25.10.2019	8.325	742.6	33.00
2	27.09.2019	25.10.2019	8.314	721.3	32.06
3	27.09.2019	25.10.2019	8.336	735.6	32.69

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Grade of Concrete : M_{30}

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.09.2019	25.10.2019	8.326	721.3	32.06
2	27.09.2019	25.10.2019	8.314	735.6	32.69
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Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.09.2019	25.10.2019	8.365	712.2	31.65
2	27.09.2019	25.10.2019	8.348	733.6	32.60
3	27.09.2019	25.10.2019	8.352	728.9	32.40

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